**LISTING OF CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the Application:

**Claims 1-38 (canceled)**

**Claim 39 (currently amended):** An electroanalytical method for analyzing a sample fluid, comprising the steps of:

(a) providing said sample fluid to an electroanalytical call equipped with a reference electrode, a plurality of working electrodes, and an auxiliary electrode;

(b) applying a series of voltage pulses of varying potential across said electrodes in order to produce ~~obtain transient signal responses varied by~~ different electrochemical ~~chemical~~ reactions ~~obtainable~~ due to said plurality of working electrodes being formed or coated by said different materials;

(c) measuring ~~said~~ transient signal responses to said different electrochemical reactions;

(d) registering the entire transient curves of said transient signal responses; and

(e) evaluating said entire transient curves of said transient signal responses by multivariate methods.

**Claim 40 (previously presented):** The method according to claim 39, wherein said voltage pulses are applied as large amplitude pulse voltammetry (LAPV) or small amplitude pulse voltammetry (SAPV).

**Claim 41 (previously presented):** The method according to claim 40, wherein said transient signals represent current or voltage.

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**Claim 42 (previously presented):** The method according to claim 40, including the step of superimposing said voltage pulses on rising or falling current or voltage curves.

**Claim 43 (canceled)**

**Claim 44 (previously presented):** The method according to claim 39, wherein said plurality of working electrodes are formed of or coated by different materials.

**Claim 45 (previously presented):** The method according to claim 39, and including the steps of cyclically switching a current or voltage generator and/or a recording device between different working electrodes allowing sufficient time between pulses to each electrode to allow the influence of a previous pulse on the fluid to have ceased before a next pulse arrives at the same electrode.

**Claim 46 (previously presented):** The method according to claim 39, wherein said pulses are varied in frequency.

**Claim 47 (previously presented):** The method according to claim 39, wherein said pulses are varied in amplitude.

**Claim 48 (previously presented):** The method according to claim 39, including the step of treating said transients to enhance measurements before said evaluation.

**Claim 49 (previously presented):** The method according to claim 48, wherein said transients are treated by derivation, integration or proportionality methods.

**Claim 50 (previously presented):** The method according to claim 39, wherein said electrical pulses have a pulse frequency of 10Hz to 100kHz.

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**Claim 51 (currently amended):** An electronic tongue, comprising a pulse generator coupled to electrodes for contact with a fluid to be investigated, a recording device for recording transient signal responses ~~transients~~ obtained by application of pulses to said electrodes, and a computer for evaluating transient curves of said transient signal responses ~~transients~~ using multivariate pattern recognition by the method of claim 39.

**Claim 52 (previously presented):** An electronic tongue, as claimed in claim 51, wherein said computer is adapted to control said pulses based on amplitude, shape or frequency, or based on an interaction between a generated pulse and a measured response.

**Claim 53 (previously presented):** The method according to claim 39, wherein said electroanalytical cell also includes a reference electrode.

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